



JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD

TO-220F Plastic-Encapsulate Transistors

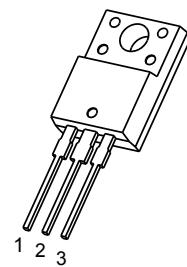
2SD2061 TRANSISTOR (NPN)

FEATURES

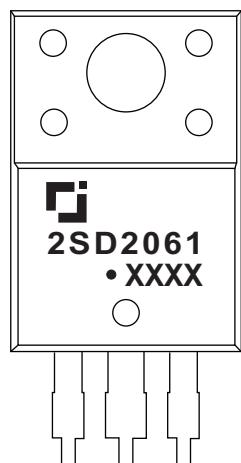
- Low Saturation Voltage
- Excellent DC Current Gain Characteristic

TO-220F

1. BASE
2. COLLECTOR
3. Emitter

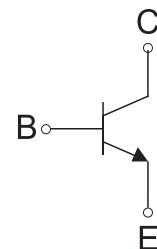


MARKING



2SD2061=Device code
Solid dot=Green moldinn compound device,
if none,the normal device
XXXX=Code

Equivalent Circuit



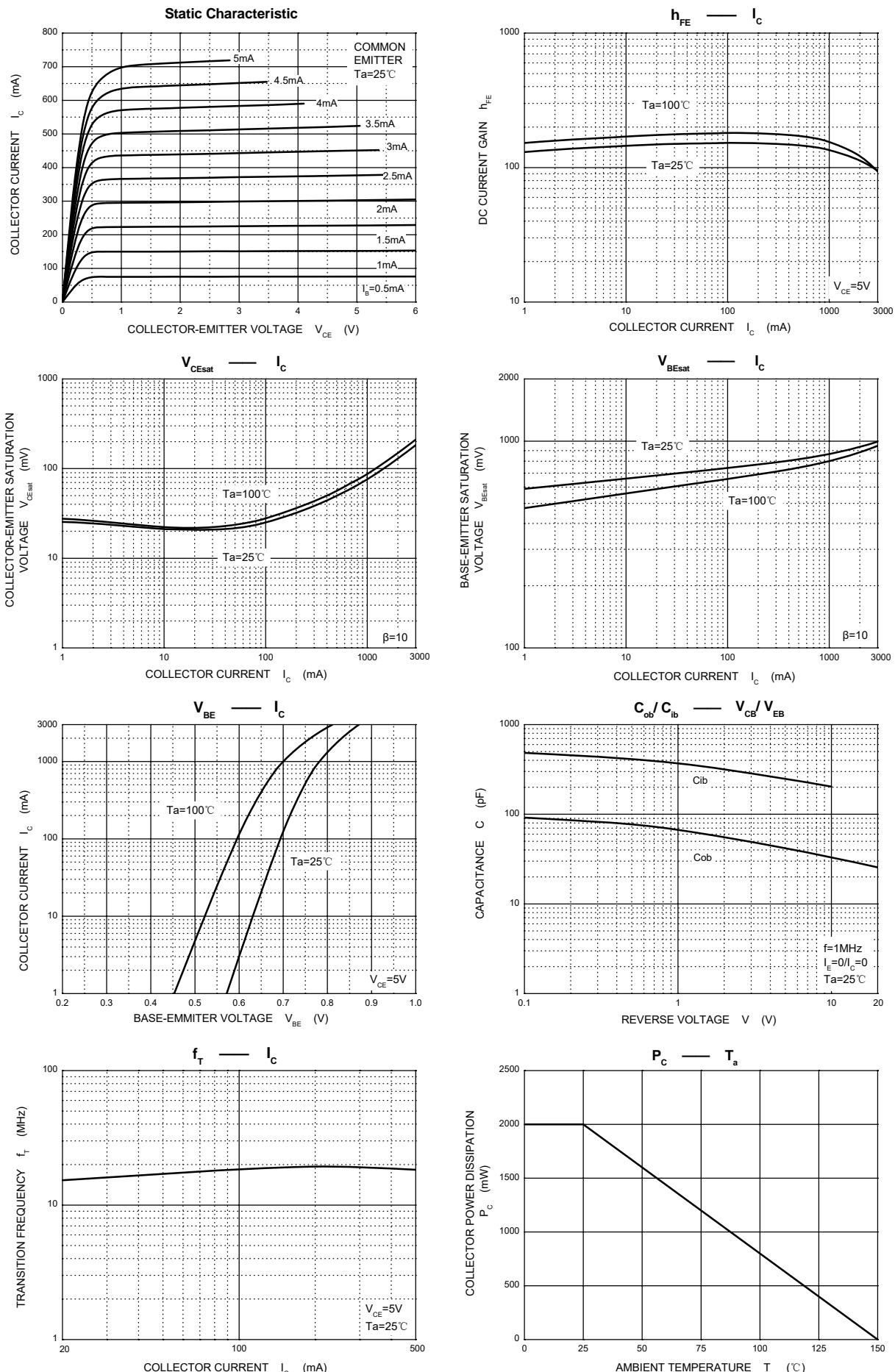
MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Symbol	Paramenter	Value	Unit
V_{CBO}	Collector-Base Voltage	80	V
V_{CEO}	Collector-Emitter Voltage	60	V
V_{EBO}	Emitter-Base Voltage	5	V
I_c	Collector Current -Continuous	3	A
P_c	Collector Power Dissipation	2	W
T_J, T_{STG}	Operation Junction and Storage Temperature Range	-55-150	°C

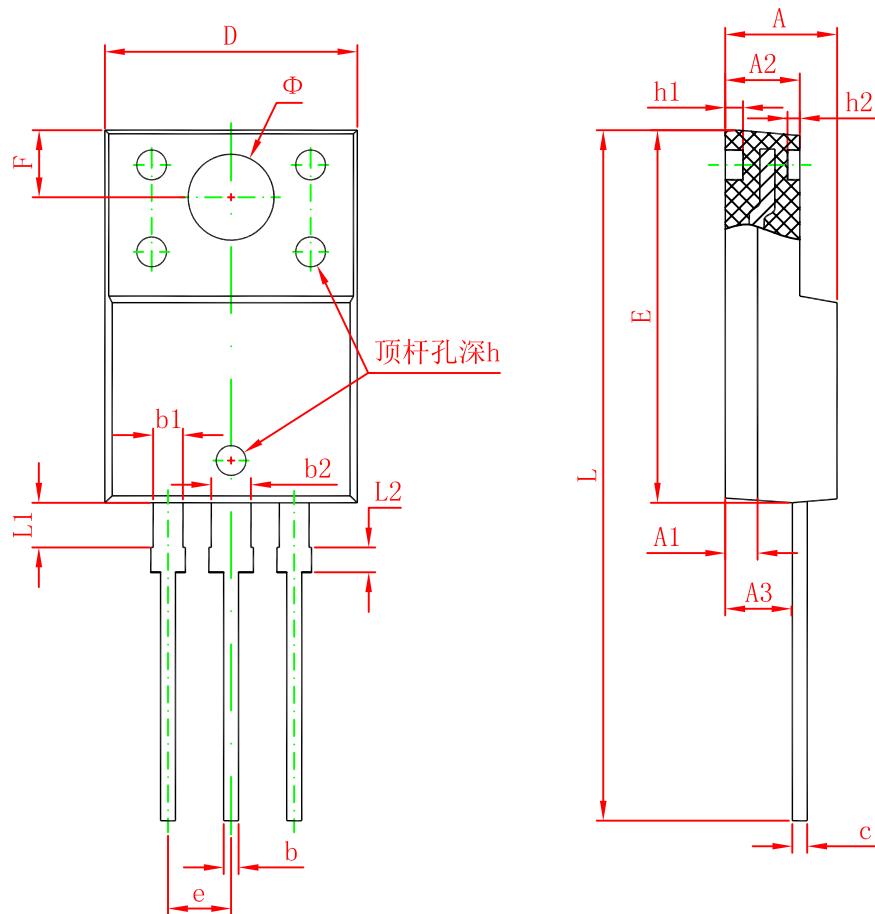
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(\text{BR})\text{CBO}}$	$I_C=50\mu\text{A}, I_E=0$	80			V
Collector-emitter breakdown voltage	$V_{(\text{BR})\text{CEO}}$	$I_C=1\text{mA}, I_B=0$	60			V
Emitter-base breakdown voltage	$V_{(\text{BR})\text{EBO}}$	$I_E=50\mu\text{A}, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{\text{CB}}=60\text{V}, I_E=0$			10	μA
Emitter cut-off current	I_{EBO}	$V_{\text{EB}}=4\text{V}, I_C=0$			10	μA
DC current gain	h_{FE}	$V_{\text{CE}}=5\text{V}, I_C=0.5\text{A}$	100		320	
Collector-emitter saturation voltage	$V_{\text{CE}(\text{sat})}$	$I_C=2\text{A}, I_B=0.2\text{A}$			1	V
Base-emitter saturation voltage	$V_{\text{BE}(\text{sat})}$	$I_C=2\text{A}, I_B=0.2\text{A}$			1.5	V
Transition frequency	f_T	$V_{\text{CE}}=5\text{V}, I_C=0.5\text{A}, f=5\text{MHz}$		8		MHz
Collector output capacitance	C_{ob}	$V_{\text{CB}}=10\text{V}, I_E=0, f=1\text{MHz}$		70		pF

Typical Characteristics



TO-220F Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	4.300	4.700	0.169	0.185
A1	1.300	REF.	0.051	REF.
A2	2.800	3.200	0.110	0.126
A3	2.500	2.900	0.098	0.114
b	0.500	0.750	0.020	0.030
b1	1.100	1.350	0.043	0.053
b2	1.500	1.750	0.059	0.069
c	0.500	0.750	0.020	0.030
D	9.960	10.360	0.392	0.408
E	14.800	15.200	0.583	0.598
e	2.540	TYP.	0.100	TYP.
F	2.700	REF.	0.106	REF.
Φ	3.500	REF.	0.138	REF.
h	0.000	0.300	0.000	0.012
h1	0.800	REF.	0.031	REF.
h2	0.500	REF.	0.020	REF.
L	28.000	28.400	1.102	1.118
L1	1.700	1.900	0.067	0.075
L2	0.900	1.100	0.035	0.043

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